Cisco Data Center Unified Computing System C-series Troubleshooting

SKU-DCUCSCTS DUREE 2 JOURS

A QUI S'ADRESSE CETTE FORMATION

The primary audience for this course is as follows:

- Cisco Channel Partner SEs and FEs that are seeking to assume active roles in addressing and correcting Level 1 and 2 UCS C-Series Standalone Server issues.

PRÉ-REQUIS

Prior to attending this course, it is strongly recommended that students attend:

Implementing Cisco Data Center Unified Computing (SKU-DCUCI)

OBJECTIFS DE LA FORMATION

Upon completing this course, the learner will be able to meet these overall objectives:

- Review the UCS C-Series product platform with an emphasis on feature support
- Describe the initial setup, configuration, and connectivity to ensure proper Cisco Integrated Management Controller (CIMC) operation
- Review the UCS C-Series troubleshooting methodology as well as present common configuration challenges
- Describe CIMC utilities that enable performance validation and facilitate data gathering activities for troubleshooting purposes
- Describe the process to download firmware updates by using Host Upgrade Utility (HUU)
- Perform server BIOS updates with various methods
- Describe the correct process to update the server BIOS by using the EFI shell
- Describe the correct process for recovering a UCS C-Series server by using a USB Recovery Module
- Describe the features and benefits of the UCS C-Series P81E Virtual Interface Card (VIC)
- Perform the proper network (LAN) configuration steps for the P81E VIC
- Describe common troubleshooting issues and recommended solutions for the UCS C-Series P81E VIC
- Review the Cisco VIC P81E SAN configuration and vHBA properties
- Describe the Fiber Channel over Ethernet Initialization Protocol (FIP) and validate its proper configuration
- Describe the process for determining P81E configuration-related problems
- Review and introduce the RAID controller options for the UCS C-Series servers
- Introduce the SAS Extender and Expander options for the C-Series servers
- Configure the LSI 1068E, LSI 9261-8i, and the software ICH10R RAID controllers
- Identify the symptoms and recommended solutions of RAID adapter and disk failure modes
- Describe the steps for installing an operating system onto a local disk
- Describe the steps for installing an operating system by using a SAN boot

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- Describe the process to download and install additional device drivers after successful OS installation
- Describe common device driver and operating system troubleshooting issues and their recommended solutions
- Execute the password recovery process for UCS C-Series server CIMC and BIOS passwords
- Configure management access to the UCS C-Series server through the LAN on Motherboard and NIC ports
- Configure the UCS C-Series Intelligent Peripheral Management Interface for management access
- Configure the UCS C-Series Serial over LAN service
- Describe the rationale and various components that are required to complete UCS C-Series integration with UCS Manager
- Configure the Fabric Interconnect and Fabric Extender for a UCS C-Series server
- Configure the UCS C-Series server to operate as part of a UCS Manager instance

CONTENU DE LA FORMATION

Cisco Data Center Unified Computing System C-Series Troubleshooting (SKU-DCUCSCTS) is a 2-day instructor-led training course designed to prepare Cisco Channel Partners, systems engineers, and implementers with the knowledge and hands-on experience to properly install, configure, and troubleshoot UCS C-Series servers operating in standalone mode.

The goal of Cisco Data Center Unified Computing System C-Series Troubleshooting (SKU-DCUCSCTS) v1.0 is to enable the UCS Partner to troubleshoot Level 1 and 2 standalone UCS C-Series integration issues.